

# PATENT ABSTRACTS OF JAPAN

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## (54) DISCHARGE LAMP LIGHTING DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To securely prevent a circuit for detecting the filament in a discharge lamp from making error due to the voltage fluctuation of a direct current power source with the simple structure in a discharge lamp lighting device for lighting a discharge lamp at a high frequency with an inverter circuit.

**SOLUTION:** This discharge lamp lighting device has a direct current/ alternating current converter means for rectifying the output voltage of an alternating current power source so as to output the direct current voltage, an inverter circuit for switching one or more switching elements Q2, Q3 with high frequency on the basis of the input direct current voltage and for outputting the high frequency voltage, a discharge lamp lighting circuit for lighting a preheated cathode discharge lamp LA with the high frequency voltage, and a detecting circuit for detecting the filament in the discharge lamp LA. In the case where the direct current voltage is fluctuated or changed, reference voltage of the detecting circuit is changed in response to the fluctuation or the change.

